ABXCW2.APP SEQUENCE LISTING

	35251.05 555.5.05	
<110>	SCHREIBER, JOHN R.	
<120> XENOMO	HUMAN ANTI-PSUEDOMONAS AERUGINOSA ANTIBODIES DERIVED FROM TOUSE	RANSGENIC
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	10/581,564 June 2, 2006	
<140> <141>	PCT/US2004/040594 2004-12-03	
<150> <151>	60/527,524 2003-12-05	
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<400> gggaat	3 ttcat ggactggacc tggaggrtyc tctkc	35
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<220> <223>	Description of Artificial Sequence: Synthetic primer	
<400> gggaa1	5 ttcat grammwactk tgkwscwysc tyctg	35
<210> <211> <212> <213>	25	
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<400> gaggt	6 rcagy tgctcgagtc tggrg	25
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<220> <223>	Description of Artificial Sequence: Synthetic primer	
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<210><211><211><212>	23	
<220>	Description of Artificial Sequence: Synthetic primer	
<400> gaggt		23
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<400> caggwo	10 gcagc tgctcgagtc kggg	24
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<220> <223>	Description of Artificial Sequence: Synthetic primer	
<400> cccaa	11 gcttc atcagatggc gggaaga	27
<210> <211> <212> <213>	35	
<220> <223>	Description of Artificial Sequence: Synthetic primer	
<400> gggaa1	12 ttcat ggacatgrrr dycchvgykc asctt	35
<210> <211> <212> <213>	120	
<220> <223>	Description of Artificial Sequence: Synthetic antibody	
<400> Gln Va	13 al Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu Page 3	

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Tyr 25 Gly Trp Ser Trp Ile Arg Gln Pro Ala Gly Lys Gly Leu Glu Trp Ile Gly Arg Ile Tyr Thr Ser Gly Asn Thr Asn Tyr Lys Pro Ser Leu Lys 66 Pro Ser Leu Lys 65 Arg Val Thr Met Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu 65 Arg Val Thr Ala Ala Ala Asp Thr Ser Lys Asn Gln Phe Ser Leu 80 Lys Leu Ser Ser Val Arg Gly Val Thr Phe Asp Tyr Tyr Cys Ala 95 Thr Leu Val Thr Val Ser Ser Ala 120

<210> 14

<211> 118 <212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
 antibody

<400> 14
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Val Ser Asp Tyr
Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile
Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys
Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu
65
Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ser Lys Asn Gln Phe Ser Leu
80
Arg Asp Gly Ser Val Pro Pro Gly Ile Tyr Trp Gly Gln Gly Thr Leu
110

Val Thr Val Ser Ser Ala 115

<210> 15 <211> 123

<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
 antibody

<210> 16 <211> 122

<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic antibody

Gln Gly Thr Leu Val Thr Val Ser Ser Ala

\$\frac{4400}{10}\$ \quad \text{Gln} \text{ Val} \text{ Gln} \text{ Leu} \text{ Val} \text{ Gln} \text{ Val} \text{ Gln} \text{ Gln} \text{ Ser} \text{ Gln} \text{ Gln} \text{ Gln} \text{ Gln} \text{ Gln} \text{ Pro} \text{ Gln} \text{ Gln} \text{ Asn} \text{ Ala} \text{ Ser} \text{ Gln} \text{ Pro} \text{ Gln} \text{ Pro} \text{ Gln} \text{ Trp} \text{ Val} \text{ Asn} \text{ Ala} \text{ Ala} \text{ Cln} \text{ Trp} \text{ Val} \text{ Asn} \text{ Gln} \text{ Trp} \text{ Ala} \text{ Cln} \text{ Trp} \text{ Ala} \text{

Page 5

<210> 17 <211> 121

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic antibody

<400> 17

Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln 1 5 10 15

120

Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ser Ser Asn $20 \hspace{1cm} 25 \hspace{1cm} 30$

Ser Ala Ala Trp Asn Trp Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu 35 40 45

Trp Leu Gly Arg Thr Tyr Tyr Arg Ser Lys Trp Tyr Asn Asp Tyr Ala 50 60

Val Ser Val Lys Ser Arg Ile Thr Ile Asn Pro Asp Thr Ser Lys Asn 65 70 75 80

Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val 85 90 95

Tyr Tyr Cys Ala Arg Gly Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser Ala 115 120

<210> 18

<211> 123

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 antibody

<400> 18

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly

1 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Ala 20 25 30

Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 45

Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala 50 60

Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr 65 70 75 80

ABXCW2.APP Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr Tyr Cys Thr Thr Tyr Tyr Tyr Asp Ser Ser Gly Tyr Tyr Tyr Trp
100 105 110 Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala 115 120

<210> 19 <211> 122

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic antibody

<400> 19 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
1 5 10 15 Ser Leu Lys Ile Ser Cys Lys Gly Phe Gly Tyr Ser Phe Ala Ser Tyr 20 25 30

Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met 35 40 45

Gln Gly Gln Val Ala Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr 65 70 75 80

Leu Gln Trp Asn Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys $85 \hspace{1cm} 90 \hspace{1cm} 95$

Ala Arg Arg Gly Phe Ser Gly Arg Ser Tyr Asp Ala Phe Glu Ile Trp $100 \hspace{1cm} 105 \hspace{1cm} 110$

Gly Gln Gly Thr Met Val Thr Val Leu Ala 115 120

<210> 20 <211> 125

<212> PRT

<213> Artificial Sequence

<220> <223> Description of Artificial Sequence: Synthetic antibody

<400> 20 Gln Val His Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu 1 1 15 Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Thr Asn Phe 20 25 30Tyr Trp Ser Trp Ile Arg Gln Ser Ala Gly Lys Gly Leu Glu Trp Ile

Gly Arg Ile Tyr Ile Ser Gly Thr Thr Asn Tyr Asn Pro Ser Leu Lys 50 60 Ser Arg Val Thr Met Ser Leu Asp Thr Ser Lys Asn Gln Phe Ser Leu 65 70 75 80 Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala 85 90 95 Arg Gly Gly Tyr Ser Ile Gly Trp Tyr Arg Asp Leu Gly Ser Phe Asp 100 105 110Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Ala 115 120 125

<210> 21 <211> 117 <212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic antibody

<400> 21 GÎN VAÎ GÎN Leu GÎN GÎU Ser GÎY Pro GÎY Leu VAÎ LYS Pro Ser GÎU 1 1 15

Ser Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Val Ser Ser Tyr 20 25 30

Tyr Trp Ser Trp Ile Arg Gln Pro Ala Gly Lys Gly Leu Glu Trp Ile 35 40 45

Gly Leu Ile Tyr Thr Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys
50 55 60

Ser Arg Val Thr Met Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu 65 70 75 80

Lys Leu Ser Ser Val Thr Ala Ala Asp Ser Ala Val Tyr Tyr Cys Ala 85 90 95

Arg Ile Ala Ala Gly Thr Asp Tyr Trp Gly Gln Gly Thr Leu Val $100 \hspace{1cm} 105 \hspace{1cm} 110$

Thr Val Ser Ser Ala 115

<210> 22

<211> 113 <212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence: Synthetic antibody

Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly Page 8

Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Phe Ser 25

Asn Glu Tyr Asn Phe Leu Asp Trp Phe Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val Pro So Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile 70

Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln Ala 85

Leu Gln Ile Pro Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg

<210> 23 <211> 108 <212> PRT <213> Artificial Sequence

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn Val
Leu Val Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile
Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Tyr Pro Trp
Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg

<210> 24

<211> 114

<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Page 9

antibody

<400> 24
Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Asn Ile Leu Tyr Asn
Ser Asn Asn Asn Asn Tyr Leu Ala Trp Phe Gln Gln Lys Pro Arg Gln
Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
65 Asn Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys Gln Gln
Tyr Tyr Ser Ala Pro Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile
Lys Arg

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<210> 25
<211> 109
<212> PRT
<213> Artificial Sequence
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<400> 25
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
10
Glu Arg Ala Thr Leu Ser Cys Arg Thr Ser Gln Ser Val Ser Ser Ile
20
Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
35
Ile Tyr Gly Ala Ser Asn Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
65
Gly Ser Gly Phe Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
65
Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Arg Ser Pro
90
Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg

<210> 26 <211> 107 <212> PRT

<220>
<223> Description of Artificial Sequence: Synthetic antibody

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic antibody

\$\lequil{400} \rightarrow 26 \\ \text{Glu Arg Val} & \text{Met Thr 5 Gln Ser Pro Ala Thr 10 Leu Ser Val Ser Pro Gly 15} \\ \text{Glu Arg Ala Thr 10 Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Asn 20 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Ser 80 Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Tyr His Trp Leu Thr 95 Phe Gly Gly Gly Gly Thr Lys Val Glu Ile Lys Arg

<210> 27 <211> 108

<212> PRT

<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic antibody

Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn Asp 20 25 30

Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu Ile 35 40 45

Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly 50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro 65 70 75 80

Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Asn Ser Tyr Pro Pro 85 90 95

Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg 100 105

<210> 28 <211> 108 <212> PRT

<213> Artificial Sequence

<220>

<400>_28

Glu Ile Val Met Met Gln Ser Pro Gly Pro Leu Ser Val Ser Pro Gly
1 5 10 15

Glu Arg Ala Ile Leu Ser Cys Arg Ala Ser Gln Asn Val Asn Ile Asn 20 25 30

Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile 35 40 45

Tyr Gly Ala Ser Thr Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser Gly 50 55 60

Ser Gly Ser Gly Thr Glu Phe Thr Phe Thr Ile Ser Ser Leu Gln Ser 65 70 75 80

Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Lys Asn Trp Pro Leu 85 90 95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg 100 105

<210> 29

<211> 113

<212> PRT

<213> Artificial Sequence

<220>

<220>
<223> Description of Artificial Sequence: Synthetic
 antibody

<400> 29

Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
1 5 10 15

Glu Arg Ala Thr Ile Asn Cys Lys Ser Ser Gln Asn Ile Leu Tyr Ser 20 25 30

Ser Asn Asn Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln 35 40 45

Pro Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr 65 70 75 80

Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Phe Cys Gln Gln 85 90 95

Tyr Tyr Asn Ile Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys $100 \hspace{1cm} 105 \hspace{1cm} 110$

Arg